

**New Book Proposal**

Please fill in all mandatory fields marked with an asterisk (\*). If you have questions about the proposal form, please reach out to us. The more information you provide at the onset, the better we can assess your proposal.

**SUBJECT AREA\*:**

Programming, C++, C++ libraries, mathematics, graphs

**THE AUTHORS / EDITORS**

Please provide some brief information about yourself according to the following structure.

If there is more than one author or editor, please enter their details in the order that they will appear on the cover. Thisinformation will be used on our website (related to this project only), so please enter it exactly as you would like to be identified,particularly regarding title, first names, middle names, etc.

**A. Author’s / Editor’s name and affiliation\*** (for each author/editor): academic title, first name and surname, institution/university, department, town/city, postal code, country:

1. **Dr. Richèl Bilderbeek, no affiliation, Uppsala, Sweden**

**B. Author’s / Editor’s mailing address\*:** TODO

**C. E-mail\*/ ORCID\*/ Social Media/ Phone:**

E-mail: TODO

ORCID Number: 0000-0003-1107-7049

Social Media (Twitter, LinkedIn, etc.): @rjcbilderbeek

Phone: +TODO

**D. Author’s / Editor’s bio\*** (max. 3.900 characters in total for all authors/editors): Please enter this information as a text in the way you’d like it displayed on the internet. Focus on affiliation, recent publications, main research focus, awards, etc.

Richèl Bilderbeek is a C++ developer with more than 20 years of experience, that has produced dozens of libraries, academic simulations, tools and games.

Richèl started programming in GW-BASIC as an 8-year old kid and at age 15 he thaught he was the best programmer in the world, which is a common teenager's misconception. At the age of 20, his C++ journal started at the University of Groningen, where he developed a simulation about earthworms' mating strategies, called 'Sex and Suffering'. The perception of his own skills changed dramatically when he started to read the literature, such as 'The Pragmatic Programmer', 'The Clean Coder', 'C++ Coding Standards', 'Effective C++' and many more. Since then, Richèl enjoys to follow the C++ literature and its best practices, both when coding himself and when teaching others. He cares about code quality, because he cares about people. And he cares about teaching for the same reason. The goal of writing this book is to give his fellow C++ programmers an introduction to the Boost.Graph library with a more gentle learning curve, while using the best C++ practices.

**SUBJECT MATTER OF BOOK**

**A. PLANNED BOOK TITLE AND SUBTITLE:\*** Title: In order that your title will be found on Amazon, please choose search-engine optimized (SEO) compatible keywords especially for the main title (**max. 55 characters**), and also for the subtitle (**max. 80 characters**). It is important to make this right from the beginning. (SEO keywords are words and phrases people type into search engines – e.g.: Google and Amazon – to find out about a subject. Choose keywords you think people will use when searching ideas and topics in your content).

Boost.Graph Cookbook 1: Basics

**B. EDITED OR AUTHORED?\***

Edited works contain contributed works from other authors. The editor(s) may also contribute to the book as an author. Authored works are only authored by the listed main authors and contain no contributions from other parties.

Please indicate below whether your book will be authored or edited.

Authored: \_ **Edited: X**

For edited volumes, please indicate the approximate number of contributors.

Number (approximate): 4

**C. BRIEF DESCRIPTION OF THE BOOK:** - **maximum 450 characters** including spaces (please note

that it is 450 characters not 450 words!): This text will be printed in our new releases and in booksellers’ catalogues and may serve as a basis for the back-cover text. The text should provide the reader with a quick overview of your book’s subject matter and the relevance of your topic or approach. Short texts are not just read by scholars, specialists and professionals but also potentially by librarians and booksellers who are strangers to your subject. Therefore, please ensure that your text is as clear as possible. We reserve the right to modify your text before it is published.

This book is the first to introduce the reader to the complex, powerful, useful and well-known Boost.Graph C++ library in a pedagogic and pragmatic way.

This book, called 'Boost.Graph Cookbook 1: Basics', follows a 'cookbook' style, that orders its items in chronologically logical fashion, increasing the complexity gradually, while showing complete pieces of code.

**D. LONGER INFORMATION TEXT FOR A SPECIALIST AUDIENCE\***: This is where you can provide us with more extensive information about your publication. This text will appear on our website and in the advertising flyers for your volume ([www.degruyter.com](http://www.degruyter.com/)). This text should not exceed **1,250 characters including spaces**. It could be structured as follows:

Introductory sentence: reason for publication

Main part: topic, subject matter of the book

Final sentence: conclusion, relevance of your book to the target group.

Please therefore ensure that your text is as clear as possible. We reserve the right to modify your text before it is published.

The Boost.Graph library is a cutting-edge C++ library to work with graphs.

Graphs are powerful data structures, consisting of points (called vertices) and lines connecting them (called edges) with broad applications, such as the famous Seven Bridges of Königsberg problem. The Boost.Library is a library that allows one to work with graphs in C++. This powerful library makes heavy use of templates and may be complex to get started with.

This book allows one to use Boost.Graph quickly and in with a gentle learning curve, while following the C++ best practices.

**E. SPECIAL FEATURES UNIQUE SELLING POINTS** (up to 3)\*:

What makes your book special compared to other publications, what problem does it solve, and what are the key features that should be highlighted? (**max.** **250 characters in total**).

1) Provides a gradual learning curve

2) Teaches topics in chronological order

3) Copy-pastable high-quality and tested code

**F. KEYWORDS\***: Our publications are made available inside and outside of our company in various directories and catalogues. Keywords are not only important for search engine optimization (SEO); they are also used for abstracting and indexing services as a mechanism to tag content. Keywords should describe the content of your publication as concisely as possible in order to ensure quick thematic classification and better searchability. Your list of keywords of terms should ideally NOT include words or terms that already used in the title of your book. Please provide 5 keywords (**in the order of their importance**).

**1. Boost.Graph**

**2. graph library**

**3. C++ library**

**4. Boost library**

**5. graphs**

**6. applied mathematics**

**G. TABLE OF CONTENTS:** Please provide a brief table of contents, or alternatively a description in one or two paragraphs of the content of each main chapter.

1. Introduction

2. Building graphs without properties

3. Working on graphs without properties

4. Building graphs with bundled vertices

5. Working on graphs with bundled vertices

6. Building graphs with bundled edges and vertices

7. Working on graphs with bundled edges and vertices

8. Building graphs with a graph name

9. Working on graphs with a graph name

10. Other graph functions

11. Misc functions

12. Errors

**13. Appendix**

**H. REVIEWERS:** Feel free to provide the names and email addresses of three peers who might be willing to provide a detailed and unbiased opinion of the proposal. Endorsements therein might be used prepublication for Amazon and similar websites. **We may or may not follow up on your suggestions.**

In alphabetic order:

\* Arnaud Becheler, TODO

\* Claudio Tiecher

\* Oliver Turner

**I. SERIES:** You can look for existing series on our homepage. If you already know the series in which you want to publish, please suggest it here:

I feel none of the series would fit well.

**MANUSCRIPT INFORMATION**

**A. SCHEDULE\*:** Please tell us when you will be able to submit the complete manuscript.

The manuscript is already completed.

**B. TYPE OF MANUSCRIPT:**

Which program do you use to prepare your manuscript?\*

Word: \_ **LaTeX: X** Other: \_

Which operating system do you use (please specify the version)?

Windows: \_ Mac: \_ **Other: X**

I use Linux, with Ubuntu 22.04 LTS Jammy Jellyfish.

Would you like to submit your manuscript camera ready? If you choose this option, we will provide you with templates and our DG corporate font, and our production department will advise you in the event that you have questions or problems. You should only choose this option if you are confident in the procedure.

**Yes X** No\_\_\_

**C. ESTIMATED PAGE COUNT\*, FIGURE COUNT, AND TABLE COUNT:** Only the page count is included in the contract. 1 printed page = 2,800 characters including spaces without images (please use Word character count).

* Pages/ Total character count/ Total word count: 140/66485/13659
* Total Figures/ Photos: 29
* Color Figures/ Photos: Yes: \_ **No: X** How many: \_
* Tables: **b/w none** colour\_\_\_\_

**D. INDEX:** Your book should contain an index. We prefer that the index is created by you using the Word index tool. Please tell us here if you require any guidance.

Yes: \_ **No: X**

There is an index created by LaTeX.

**THE MARKET FOR YOUR BOOK**

**A. TARGET GROUPS\*:** Please tell us which target groups will be interested in your publication. Please specify target groups (scholars, students or professionals) (**max. 125 character including spaces**).

Scholars, students and professionals that want to use graphs in their C++ programs.

The book is not a textbook to be used in a course. If desired, I could make it so.

If your book is written as a textbook, please indicate the level e.g., graduate or postgraduate. Do you envisage your textbook being used as a core book for a course or as supplementary reading? Also include the name of the course/ module where your book could be considered for adoption.

**B. COMPETING PUBLICATIONS:** Please name **two to three potential competing publications** and explain how your volume differs from these volumes. The publications mentioned should not be older than five years.

There are no competing publications that are younger than five years.

**ADDITIONAL PUBLISHING OPTIONS FOR YOUR BOOK**

**A. OPEN ACCESS:** If you are interested, please contact our editorial team.

I am interested in this.

**B. BULK SALE** (minimum of 10 copies)**:** Is there an institution, partner, business, etc. that may be interested in a bulk sale of your book with a special discount?

Yes: \_ **No: X**

**SPECIAL REQUIREMENTS AND REQUESTS**

Does your publication have any special requirements that we need to take into account during our planning (e.g., whether you need file copies, important deadlines to be met, etc.)?

I don't want/need money for this publication. All I want, is for people to be able to read it in paper form, while the online and rougher version remains free to read as well.

The book 'Thinking C++' from Bruce Eckel did the same (I don't know if he requested money, though)

Thank you for completing this form!

With kindest regards from your publishing team at De Gruyter.

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